

# Tile Adhesive - Core 51

Polymer modified cementitious tile adhesive



## Description

Tile Adhesive - Core 51 is a polymer modified, cementitious tile adhesive. available in grey and white color.

## Features & Benefits

- Ready to mix powder, needs only addition of water.
- Superior bond strength.
- Setting time adjusted for optimum tile laying work.
- Enriched with special additives for non-shrink & non-slip properties.
- Self curing - No additional curing required.

## Primary Application

Ceramic, vitrified, clay, glass mosaic, stone tiles (upto 10mm thick)

**Size:** Upto 1200mm x 600mm

**Area:** Interior - floor & wall,

Exterior - floor.

Dry & wet area

Tile-On-Tile: Floor

## Technical properties

**Adhesive Type & Class** : Conforms to the requirements of  
IS 15477-2019 Type 2T  
EN 12004-2017 C2T  
Deformability 'S1'

**Water/powder ratio** : 0.250 to 0.275

**Mixed Density** : 1.700 to 1.900 g/cc

Parameter	Result	Requirement as per IS:15477 - 2019
Open time (minutes)	30	Not specified
Adjustability (minutes)	40	Not specified
Slip resistance (mm)	0.02	Maximum 0.5
Deformability (mm) @ 28 days	2.96	2.5 - 5.0 (Class S1)
Tensile adhesion strength (MPa) @ 28 days a) Dry condition b) Wet condition	>1.2 >1.1	Minimum 1.0 Minimum 1.0
Shear adhesion strength (MPa) @ 28 days a) Dry condition b) Heat aging condition c) Wet condition	>1.3 >1.1 >1.2	Minimum 1.25 Minimum 1.0 Minimum 1.0

## Application Instructions

### Substrate Preparation

The substrate should be structurally sound, free from loose particles such as laitance. The substrate should be free from bond affecting substances such as oil, grease, dirt, dust or any type of friable particles. Ensure the substrate is free from any surface contaminants, any damaged substrate with deep and large Holes shall be repaired using repair mortars, before application of Tile Adhesive - Core 51. Damp the substrate if it is dry at the time of application, never moisten the tiles.

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## Mixing

Mix Tile Adhesive - Core 51 in the proportion of 5 to 5.5 liters of clean cool water per 20 kg bag. An electric mixer with low rotation speed (< 500 rpm) can be used. Mix until a uniform lump free paste is obtained. However the mixing time shall not be less than 3 minutes. Let the paste rest for a few minutes to disappear all the bubbles before starting the application.

## Application

Apply the Tile Adhesive - Core 51 paste evenly on the pre-wetted substrate. Use a notched trowel to obtain a uniform thickness. As a general guide, for commonly used tiles such as mosaic and ceramic tiles usage of 6mm notched trowel to obtain a minimum average thickness of 3 mm is recommended. For uneven surfaces the thickness of the material required will be more to even the undulations.

Apply the tiles on the substrate within 25 minutes of mixing and press them firmly with twisting movement while making sure that the paste does not slip from the tile sides. In case, the material is deposited on the tile surface, it should be removed immediately with a damp cloth. The adhesive paste can also be applied on the back of tiles to ensure full adhesion on the entire surface. Separate joint filling material should be used for grouting the tile joints. The tiles should not be disturbed for at least 24 hours after fixing the tiles.

## Cleaning

Clean tools and application equipment with water immediately before hardening of the material. Hardened and cured material can be removed by mechanical means.

## Special notes

- The cementitious substrates should be at least 28 days cured before application of the product.
- The water/powder ratio shall never be exceeded than recommended.
- Mix only appropriate quantity of powder keeping in mind the open time, within which tiling needs to be completed. Hand mixing is not recommended.
- Adjustments to the tiles should be made only within the adjustable period.
- It is recommended to leave a minimum width of 2 mm around the tiles (or as designed).
- Grouting the tile joints should be done only after at least 24 hours of tiling.

**Packaging :** 20kg bag

## Coverage

20 kg bag of Tile Adhesive - Core 51 will cover 4 to 5 m<sup>2</sup> tile area at an average thickness of 3mm.

## Storage

Tile Adhesive - Core 51 has a shelf life of 12 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

## Precautions

### Health & Safety instructions

The product contains cement powders which, when mixed with water, releases alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area and recommended to wear protective gear for hands, eyes and nose. Avoid breathing of the dust. Splashes on the skin should be washed away by cleaning thoroughly with soap and water. In case of contact with eyes, wash thoroughly with clean water and seek medical attention. If swallowed, do not induce vomiting and seek medical attention.

## Fire

Tile Adhesive - Core 51 is non-flammable

### Important note :

The products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst The company endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

